

Salinas Valley Integrated Regional Water Management

Prop 50 Round 1 Implementation
Grant

2002-2012

State Water Resources Control Board

March 4, 2014





Submitted for:
Proposition 50
Chapter 8
Implementation Grant Application

Presented by
Monterey County
Water Resources
Agency



Salinas Valley

Integrated Regional Water Management
Functionally Equivalent Plan Update

May 2006



Marina Coast
Water District



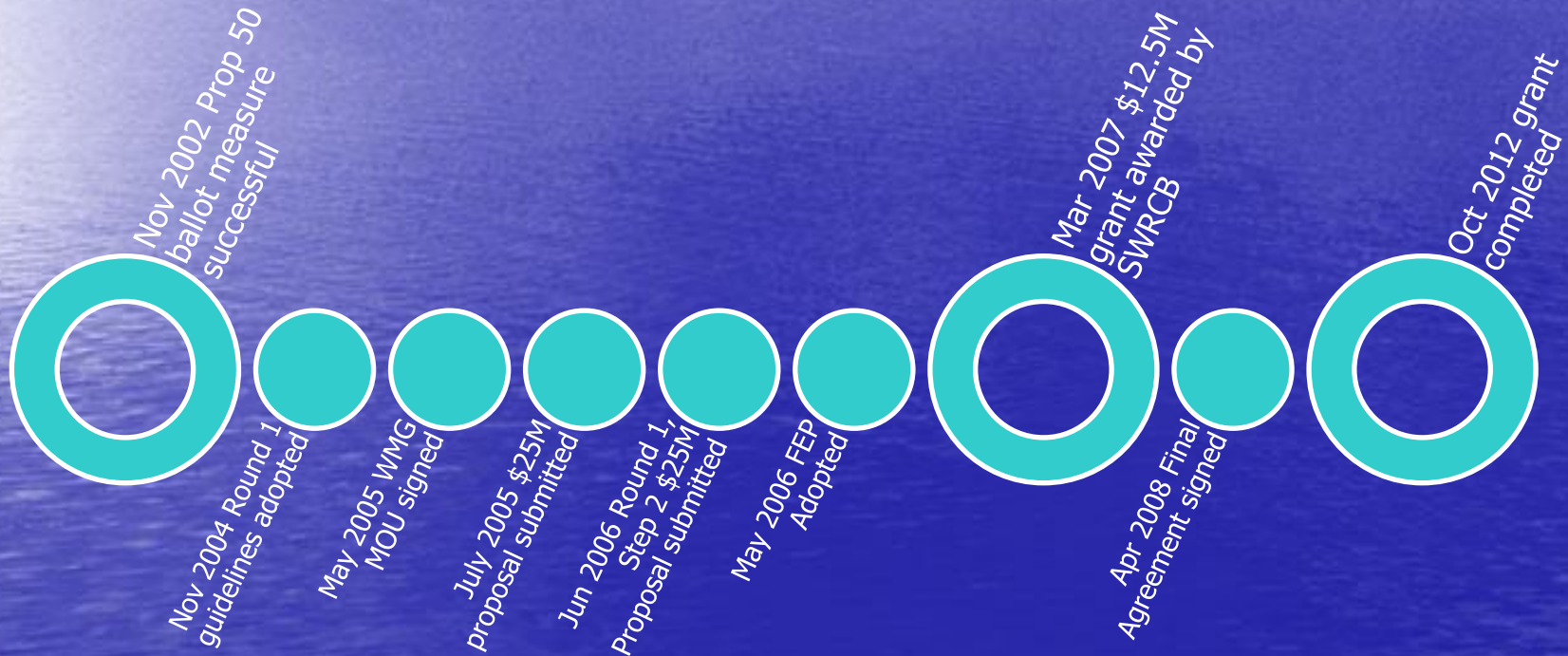
Castroville
Water District



Monterey County
Water Resources Agency



Prop 50 Round 1 Timeline

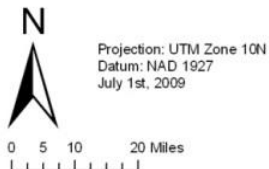


SVIRWMP History

- Developed FEP for Salinas Basin
- WMG
 - Monterey County Water Resources Agency
 - Marina Coast Water District
 - Castroville Water District



Central Coast IRWMP Regions



SVIRWMP Goals

- Four General Categories

1. Water Supply

- Improve Water Supply Reliability
- Improve Drought Reliability

2. Water Quality

- Protect and Improve Groundwater Quality
- Protect and Improve Surface Water Quality



SVIRWMP Goals (cont.)

- Four General Categories

3. Flood Protection

- Minimize Flood Potential
- Maintain Flood Channel Capacity

4. Environmental Enhancement

- Enhance Streams/Fisheries
- Enhance Wetlands



SVIWMP Regional Priorities

Short Term

Projects:

- that Stop Seawater Intrusion and balance SV Groundwater Basin
- meet existing water demands
- that re-establish steelhead in the Arroyo Seco
- that Protect and Improve Groundwater Quality



SVIWMP Priorities Long Term

- Meet Future Water Demands
- Establish Steelhead upstream of Arroyo Seco
- Continue efforts to Improve Groundwater Quality
- Implement Watershed Management



Prop. 50 Implementation Grant Projects

- Marina Coast Water District Eastern Distribution System
- Soledad Water Recycling/Reclamation Project
- Monterey County Water Resources Agency Salinas Valley Water Project



Prop. 50 Implementation Grant Project Locations

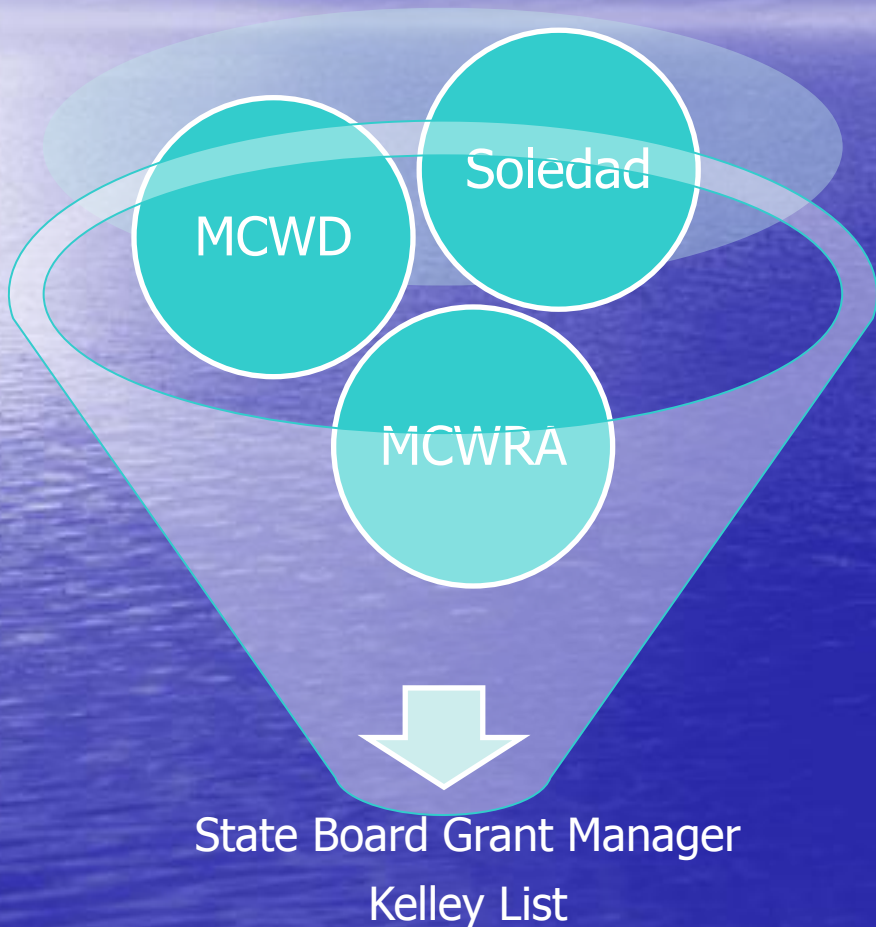


SVIRWMP Prop. 50 Budget

COMPONENT	PROP. 50 FUNDS	MATCH FUNDS	TOTAL PROJECT
Grant Administration	\$157,500	\$0	\$157,500
MCWD-Eastern Distribution System	\$2,330,000	\$3,642,081	\$5,972,081
Soledad –Water Recycling/Reclamation Project	\$4,418,750	\$0	\$4,418,750
MCWRA-Salinas Valley Water Project	\$5,593,750	\$28,300,000	\$33,893,750
TOTALS	\$12,500,000	\$31,942,081	\$44,442,081



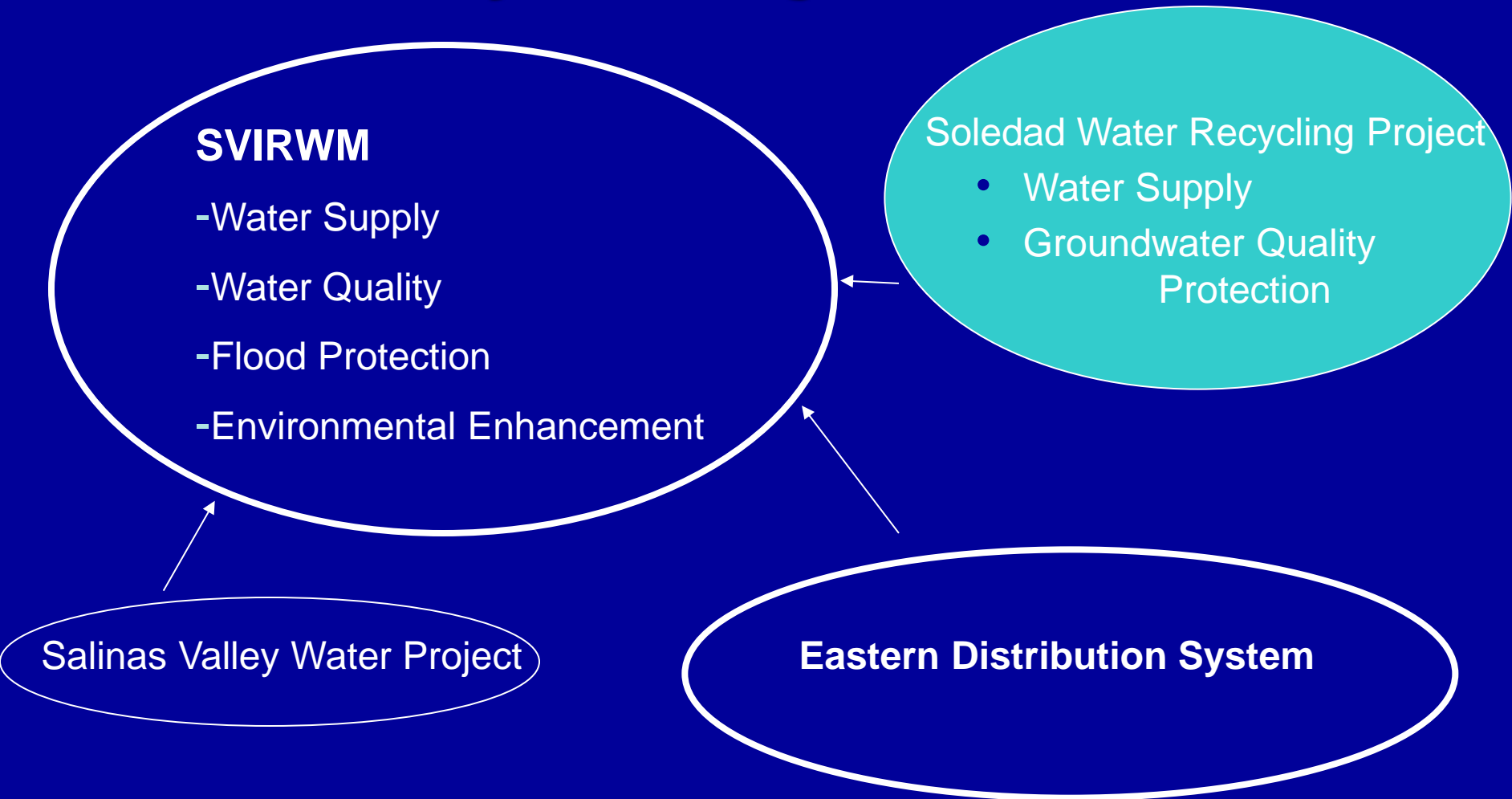
Prop. 50 Implementation Grant Project Management



- MCRWA
 - Grantee
 - Grant administrator
 - Point of Contact for State Board
- “Sub-contracted” with MCWD and Soledad



Project Linkages & Benefits



Soledad Water Recycling/Reclamation

- 5.5 MGD Tertiary Facility at the City WWTP
- 0.5 MGD Scalping Plant (expandable to 1.3 MGD)
- 4.5 mile recycled water transmission pipeline



10/2007

Soledad WWTP 2007

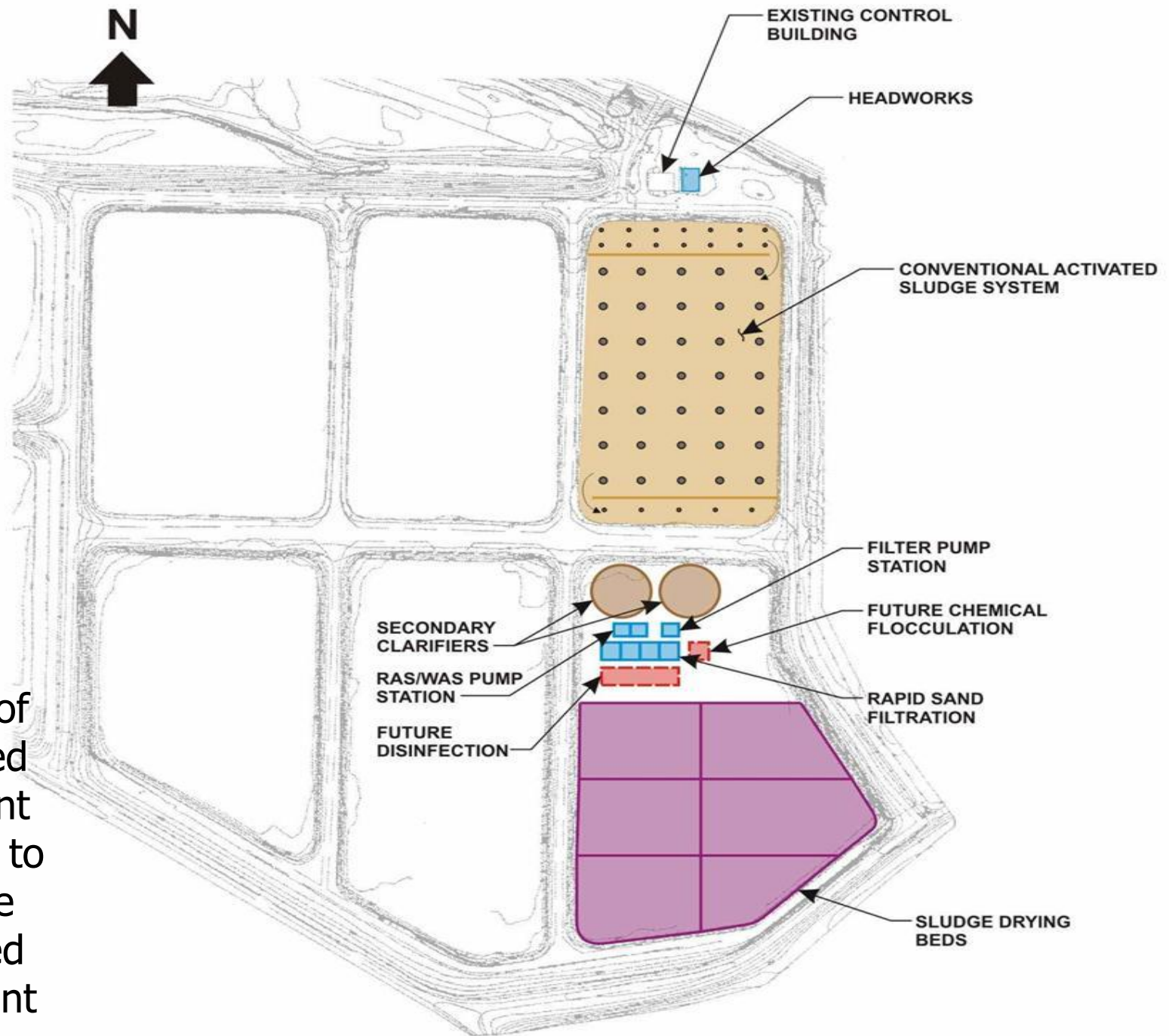
Image AMBAG

Google earth

1989

Imagery Date: 7/29/2007 36°25'14.12" N 121°20'26.00" W elev 162 ft eye alt 2288 ft

Layout of
Proposed
City Plant
Facilities to
Achieve
Required
Treatment



Soledad WWTP 2012

Google earth

1989

Imagery Date: 5/5/2012 36°25'14.12" N 121°20'26.00" W elev 162 ft eye alt 2288 ft

Project Linkages & Benefits

SVIRWM

- Water Supply
- Water Quality
- Flood Protection
- Environmental Enhancement

Water Recycling Project

Salinas Valley
Water Project

Eastern Distribution System

- Water Supply Reliability
 - Current and future demands
- Groundwater Management
- Water Quality Protection & Management

Eastern Distribution System Project

- 2 New Inland Wells – Decreases reliance on coastal wells by up to 25% to prevent further salt water intrusion
- 1 Geologic test well
- Associated structures and control systems



MCWD-EDS Well-34



MCWD-EDS

Watkins Gate Well



Project Linkages & Benefits

SVIRWM

Water Supply

Water Quality

Flood Protection

Environmental Enhancement

Soledad Water
Recycling
Project

Eastern
Distribution
System

Salinas Valley Water Project

- Stop Seawater Intrusion
- Balance Basin
- Re-establish Steelhead in Arroyo Seco
- Meet future water demands

Salinas Valley Water Project

- Nacimiento Spillway Modification
 - Address lack of capacity to pass Probable Maximum Flood
 - Lower spillway crest
 - Install Obermeyer spillway gate
 - Raise downstream spillway chute sidewalls



Nacimiento Spillway Modification

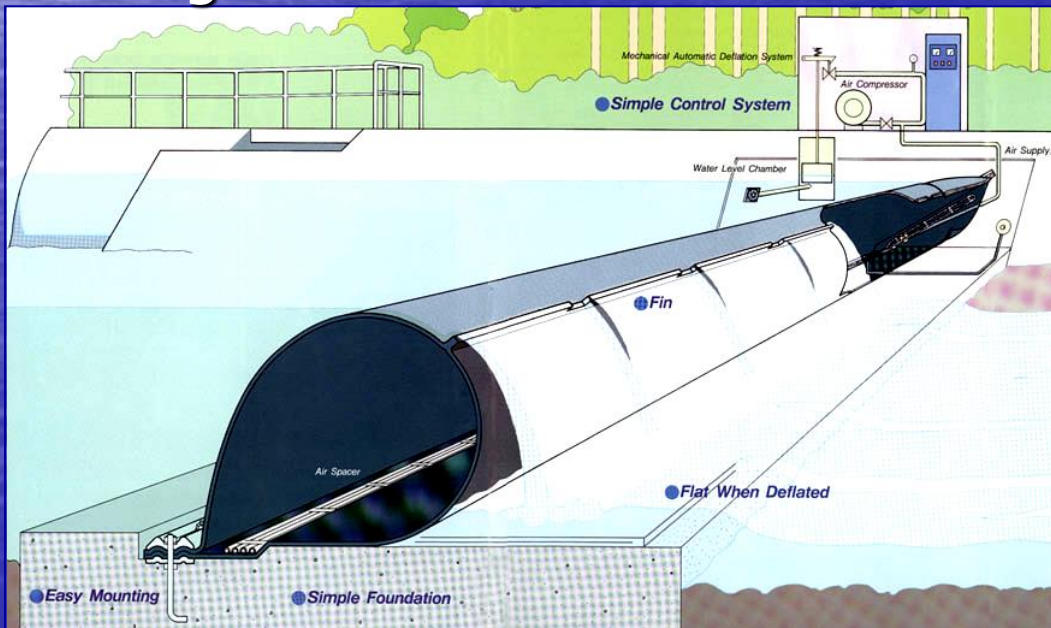


Nacimiento Spillway Modification



Salinas Valley Water Project

- Salinas River Diversion Facility
 - Construction of Diversion Structure
 - Fishway facilities (intake screen, bypass, fish ladder)
 - River intake and pumping station
 - Filtering and control facilities



Salinas River Diversion Facility



Salinas River Diversion Facility



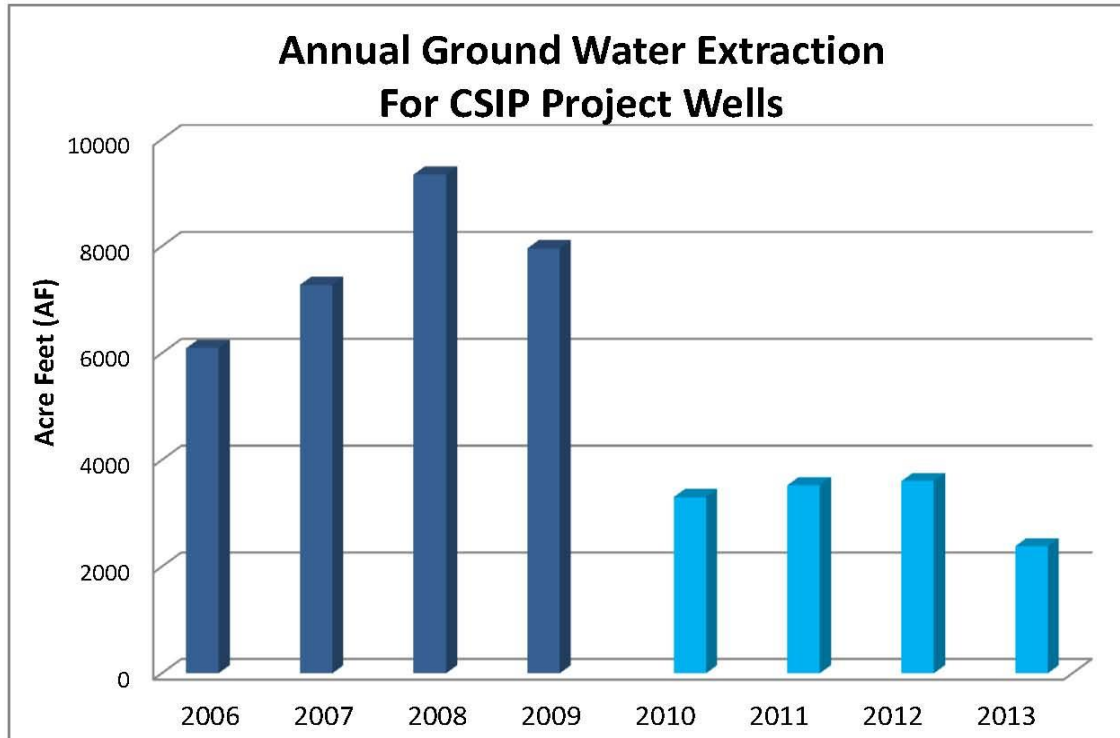
Salinas River Diversion Facility



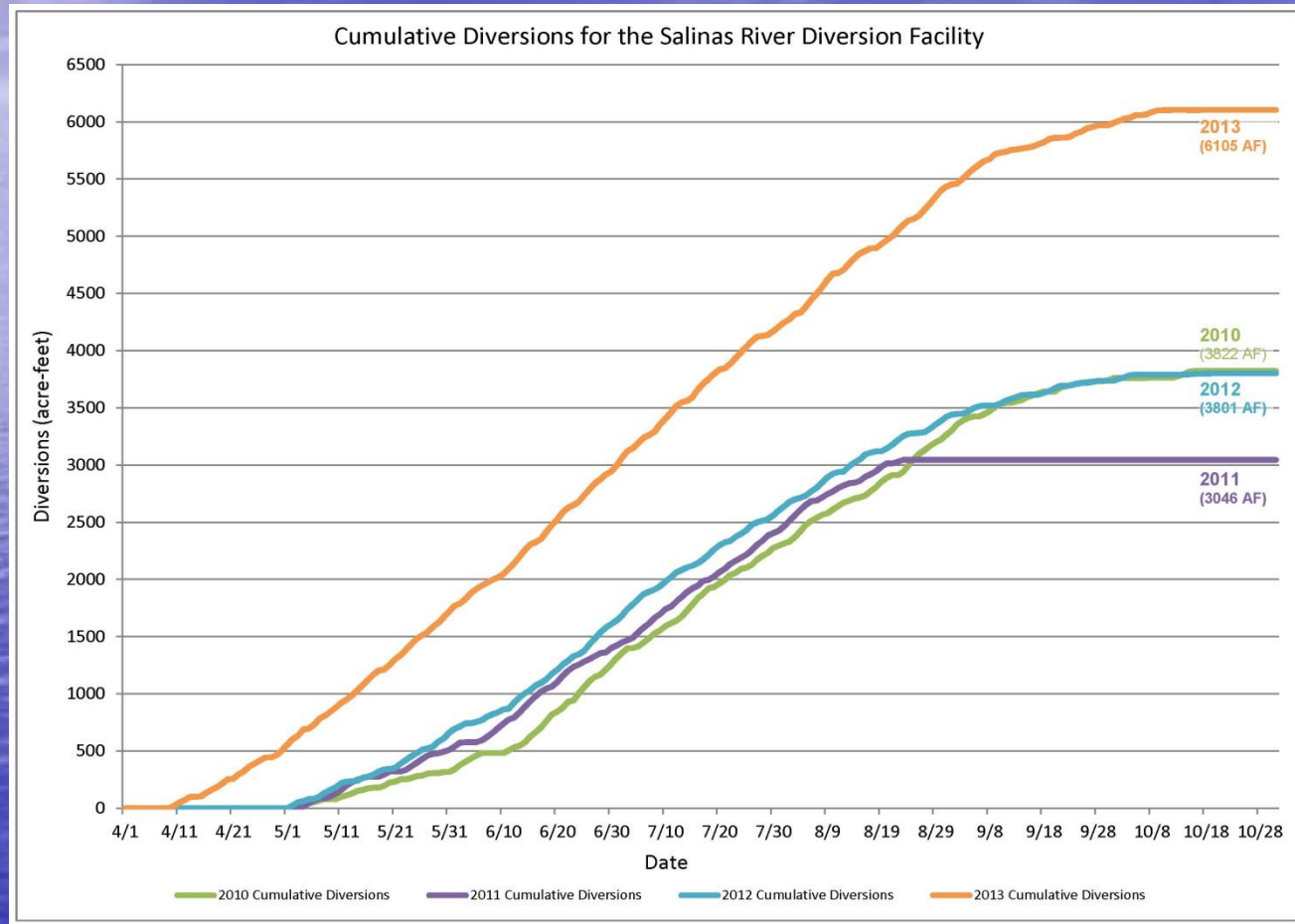
Salinas River Diversion Facility



Salinas River Diversion Facility



Salinas River Diversion Facility



Prop. 50 Round 1 Implementation Summary

- Application process
 - Long
 - Arduous
 - Expensive
- Grant Process
 - Complicated
 - Grantee/sub-grantee relationships tricky



Prop. 50 Round 1 Implementation Success

- Funded regionally important projects
 - Soledad Water Recycling Plant
 - Provides recycled water for landscape irrigation
 - MCWD-EDS
 - Moved municipal pumping inland
 - SVWP
 - Reduced coastal irrigation pumping
- Foundation for future critical plans



SVIRWMP Today

June 2006
SVIRWM
Functional
Equivalent Plan

April 2013
Greater
Monterey
IRWMP Adopted

2009 Greater
Monterey
IRWMP Region
founded



GMC IRWM Today

- Greater Monterey County Region
 - Based on watershed
 - Historical management of water resources
- WMG greatly expanded
- Prop 84 planning and implementation grants awarded



0 5 10 20 Miles

Projection: UTM Zone 10N
Datum: NAD 1927
July 1st, 2009

Central Coast IRWMP Regions

- | | |
|---|--------------|
| Greater Monterey County | County lines |
| Monterey Peninsula, Carmel Bay and South Monterey Bay | Water bodies |
| Northern Santa Cruz County | |
| Pajaro River Watershed | |
| San Luis Obispo County | |



Questions ?

